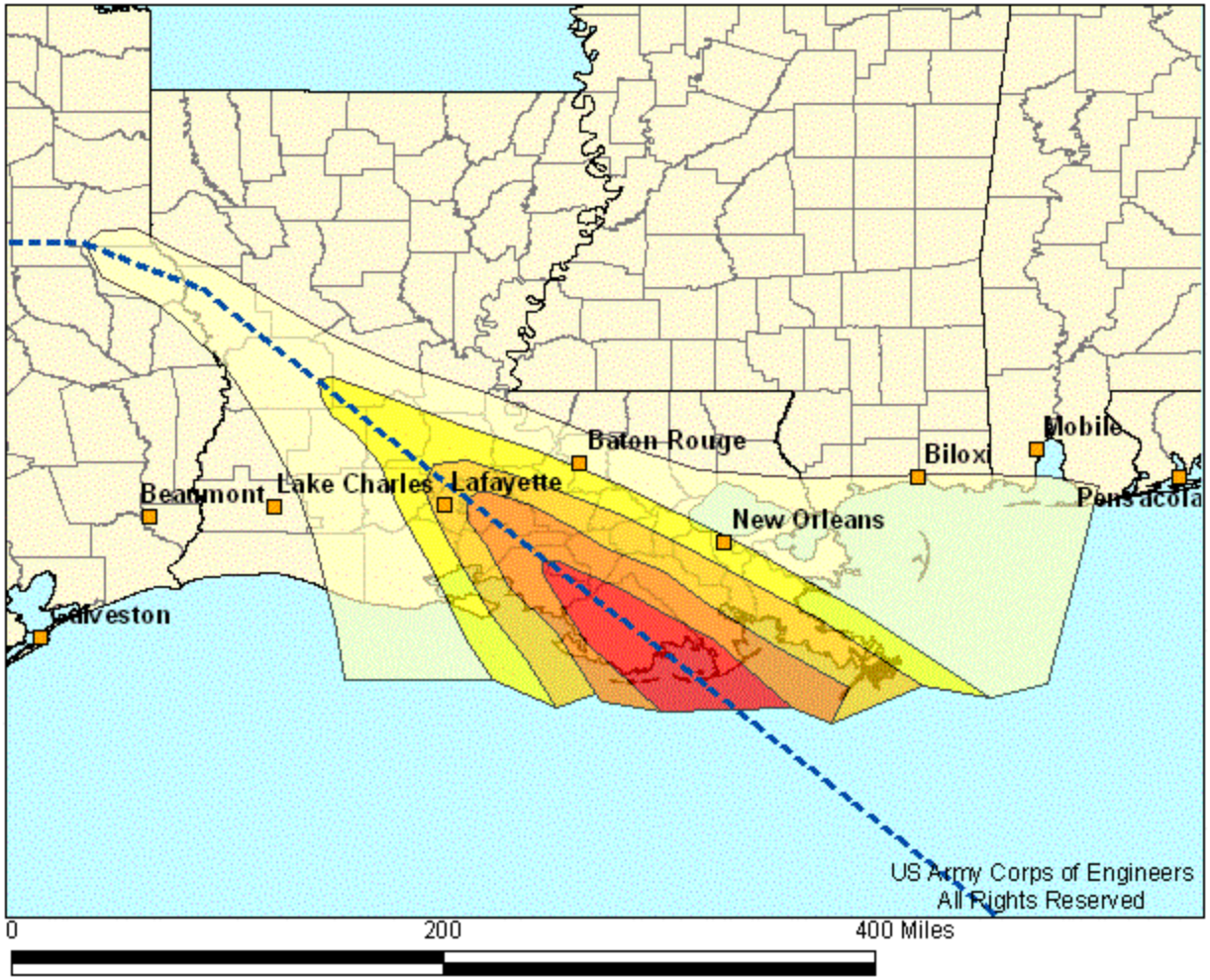
Hurricane Gustav Projected Damage Areas

US Army Corps of Engineers

Landfall Expected In About **31** Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (0800 EDT 08/31/2008) forecast.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

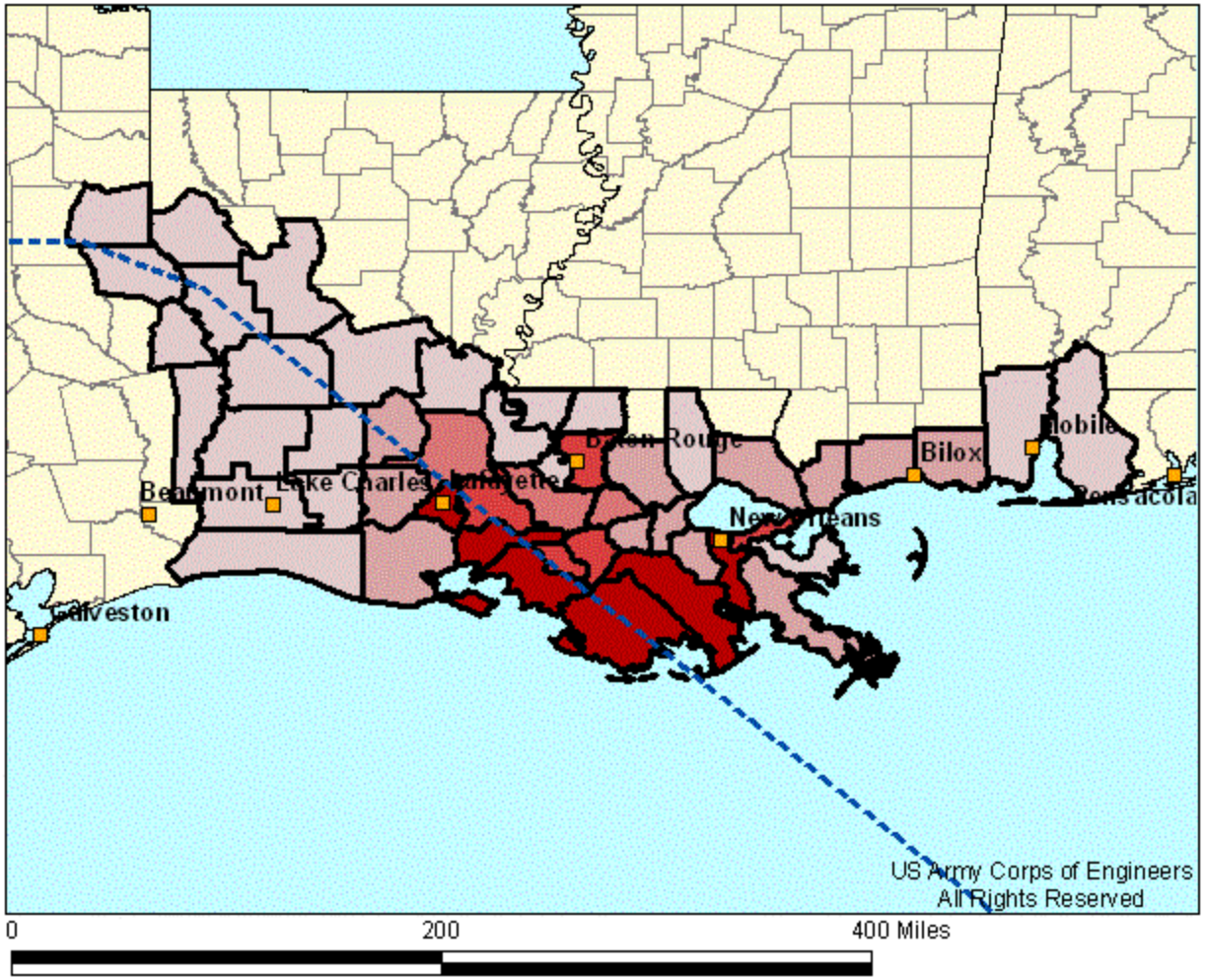
Hurricane Gustav Projected Damage Areas	
Generated By: Siemsen, LRL 0815 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 13

US Army Corps of Engineers

Hurricane Gustav Debris Model

Landfall Expected In About **31** Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Louisiana - 19,007,000 Yards
Mississippi - 554,000 Yards
Texas - 62,000 Yards
Alabama - 42,000 Yards

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (0800 EDT 08/31/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Debris Model	
Generated By: Siemsen, LRL 0815 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	Page 2 of 13

US Army Corps of Engineers

Hurricane Gustav Debris Model

Landfall Expected In About 31 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Alabama		Baldwin	26,000
		Mobile	16,000
Alabama	42,000		
Louisiana		Acadia	133,000
		Allen	58,000
		Ascension	311,000
		Assumption	542,000
		Avoyelles	34,000
		Beauregard	37,000
		Calcasieu	7,000
		Cameron	5,000
		De Soto	3,000
		East Baton Rouge	917,000
		East Feliciana	4,000
		Evangeline	102,000
		Iberia	1,256,000
		Iberville	251,000
		Jefferson	1,318,000
		Jefferson Davis	49,000
		Lafayette	1,630,000
		Lafourche	2,754,000
		Livingston	143,000
		Natchitoches	9,000
		Orleans	613,000
		Plaquemines	135,000
		Pointe Coupee	43,000
		Rapides	43,000
		Sabine	55,000
		St Bernard	33,000
		St Charles	197,000

State	Yards per State	County	Yards per County
Louisiana		St James	129,000
(continued)		St John the Baptist	123,000
		St Landry	445,000
		St Martin	986,000
		St Mary	2,186,000
		St Tammany	229,000
		Tangipahoa	53,000
		Terrebonne	3,823,000
		Vermilion	201,000
		Vernon	89,000
		West Baton Rouge	53,000
		West Feliciana	8,000
Louisiana	19,007,000		
Mississippi		Hancock	154,000
		Harrison	227,000
		Jackson	173,000
Mississippi	554,000		
Texas		Newton	< 1,000
		Panola	6,000
		Sabine	6,000
		San Augustine	< 1,000
		Shelby	50,000
Texas	62,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Hurricane Gustav Debris Model

Generated By:
Siemsen, LRL 0815 EDT 08/31/2008

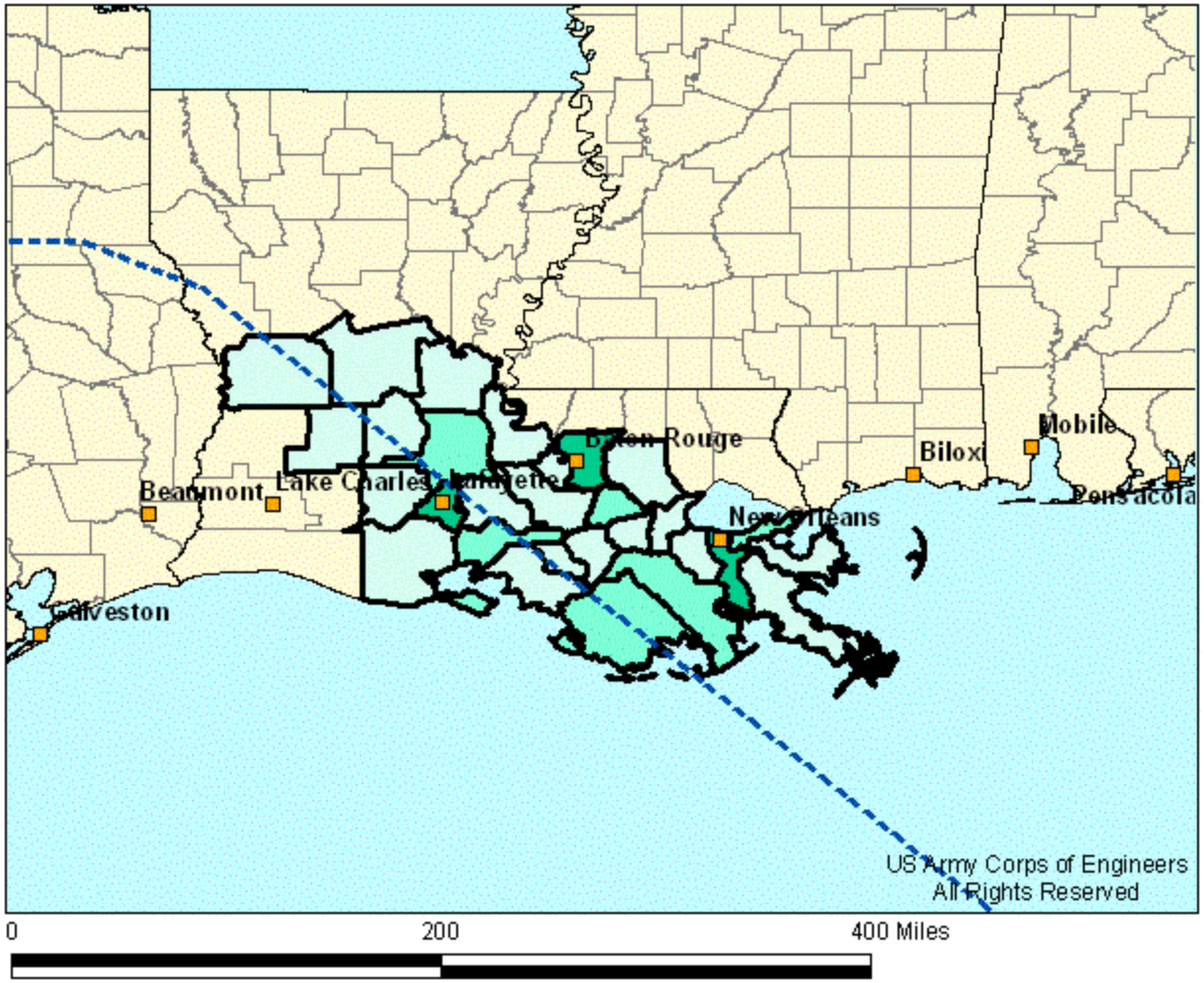
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Commodities Model

Landfall Expected In About **31** Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
Louisiana – 30/60/120 Truckloads

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC ***(0800 EDT 08/31/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Gustav Commodities Model	
Generated By: Siemsen, LRL 0815 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 13

US Army Corps of Engineers

Hurricane Gustav Commodities Model

Landfall Expected In About 31 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Louisiana		Acadia	3
		Allen	1
		Ascension	6
		Assumption	2
		Avoyelles	1
		East Baton Rouge	13
		Evangeline	2
		Iberia	5
		Iberville	2
		Jefferson	19
		Lafayette	12
		Lafourche	6
		Livingston	1
		Orleans	7
		Plaquemines	2
		Pointe Coupee	1
		Rapides	1
		St Bernard	1
		St Charles	4
		St James	2
		St John the Baptist	3
		St Landry	6
		St Martin	4
		St Mary	3
		Terrebonne	7
		Vermilion	3
		Vernon	1
		West Baton Rouge	2
Louisiana	120		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Gustav Commodities Model

Generated By:
Siemsen, LRL 0815 EDT 08/31/2008

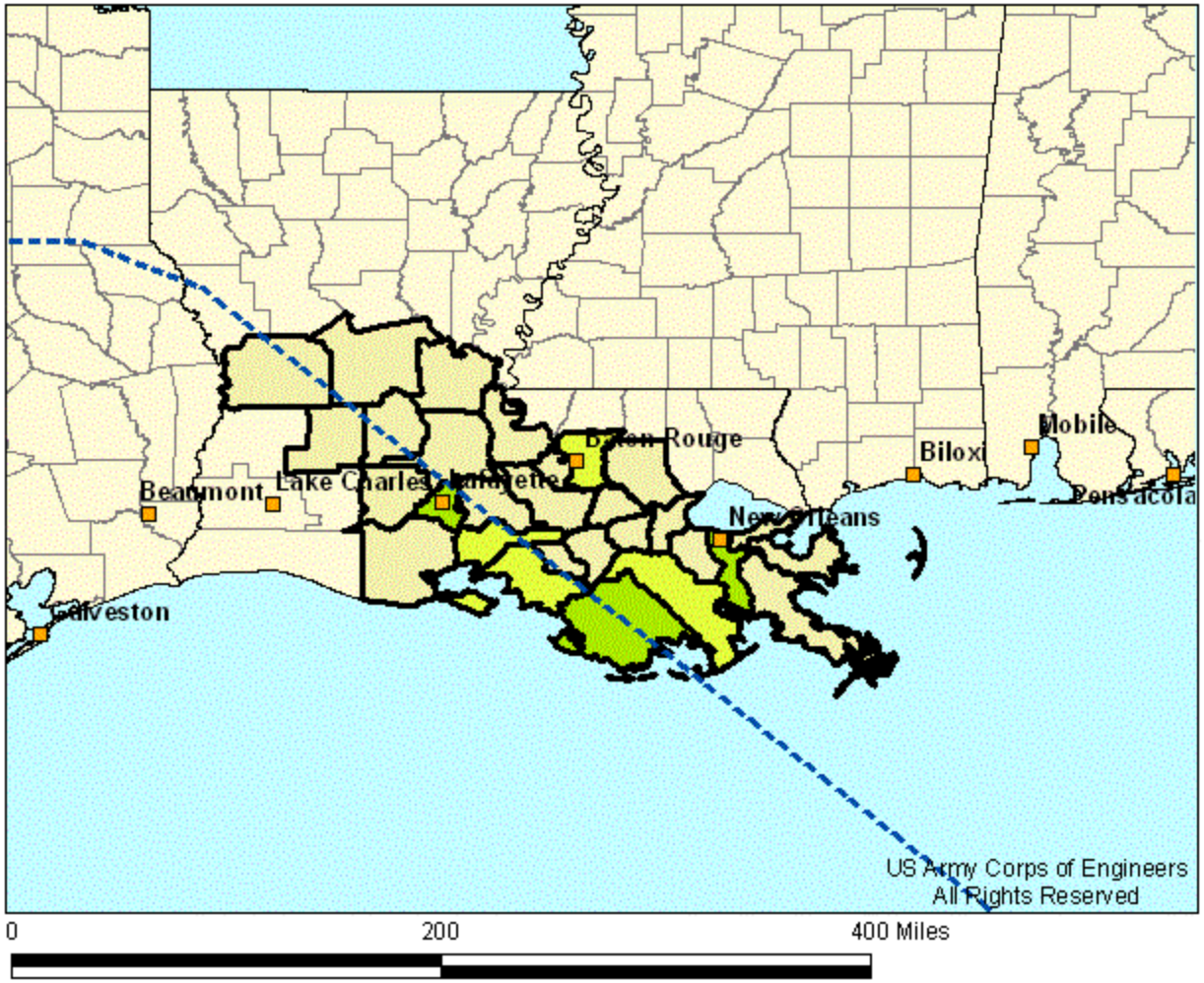
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Gustav Temporary Roofing Model

US Army Corps of Engineers

Landfall Expected In About **31** Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Louisiana - 35,300

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (0800 EDT 08/31/2008) forecast. Temporary roofing is based on 3% in CAT 1, 6% in CAT 2, 10% in CAT 3 and 16% in CAT 4.

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Roofing Model	
Generated By: Siemsen, LRL 0815 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 13

US Army Corps of Engineers

Hurricane Gustav Temporary Roofing Model

Landfall Expected In About 31 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Louisiana		Acadia	500
		Allen	200
		Ascension	1,300
		Assumption	800
		Avoyelles	< 100
		East Baton Rouge	2,700
		Evangeline	400
		Iberia	2,100
		Iberville	700
		Jefferson	4,200
		Lafayette	4,700
		Lafourche	3,300
		Livingston	< 100
		Orleans	1,500
		Plaquemines	400
		Pointe Coupee	< 100
		Rapides	< 100
		St Bernard	< 100
		St Charles	700
		St James	400
		St John the Baptist	500
		St Landry	1,400
		St Martin	1,600
		St Mary	2,500
		Terrebonne	4,500
		Vermilion	600
		Vernon	< 100
		West Baton Rouge	300
Louisiana	35,300		

Temporary roofing is based on 3% in CAT 1, 6% in CAT 2, 10% in CAT 3 and 16% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Gustav Roofing Model

Generated By:
Siemsen, LRL 0815 EDT 08/31/2008

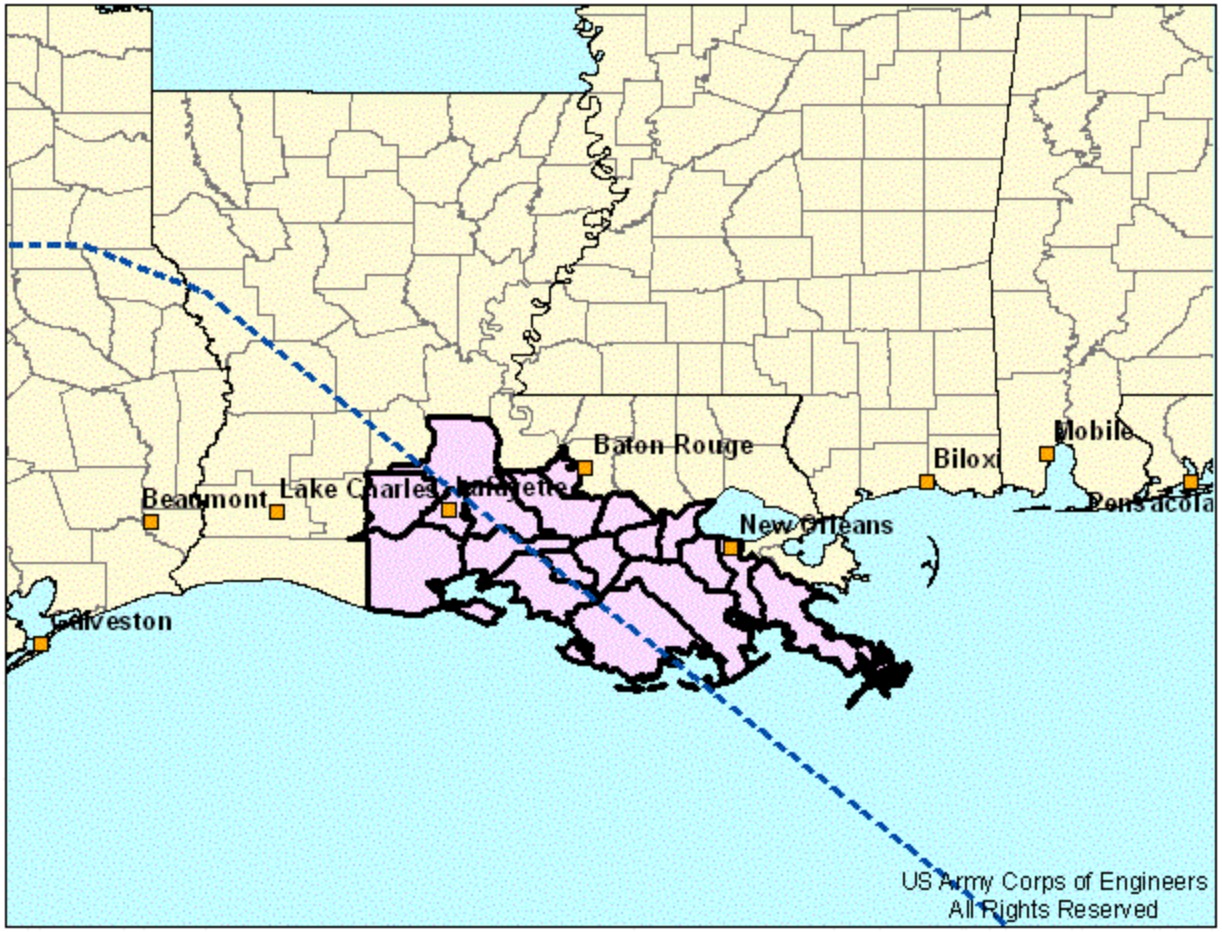
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Gustav Temporary Housing Model

US Army Corps of Engineers

Landfall Expected In About **31** Hours

For Planning Purposes Only!



0 200 400 Miles

Post Landfall Temporary Housing Model Results

Louisiana - 3,900

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (0800 EDT 08/31/2008) forecast. Temporary housing is based on 1% in CAT 2, 2% in CAT 3 and 4% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Housing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 8 of 13

US Army Corps of Engineers

Hurricane Gustav Temporary Housing Model

Landfall Expected In About 31 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Louisiana		Acadia	< 100
		Ascension	< 100
		Assumption	200
		Iberia	400
		Iberville	< 100
		Jefferson	< 100
		Lafayette	600
		Lafourche	500
		Plaquemines	< 100
		St Charles	< 100
		St James	< 100
		St John the Baptist	< 100
		St Landry	200
		St Martin	400
		St Mary	600
		Terrebonne	1,000
		Vermilion	< 100
		West Baton Rouge	< 100
Louisiana	3,900		

Temporary housing is based on 1% in CAT 2, 2% in CAT 3 and 4% in CAT 4.

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or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Gustav Housing Model

Generated By:
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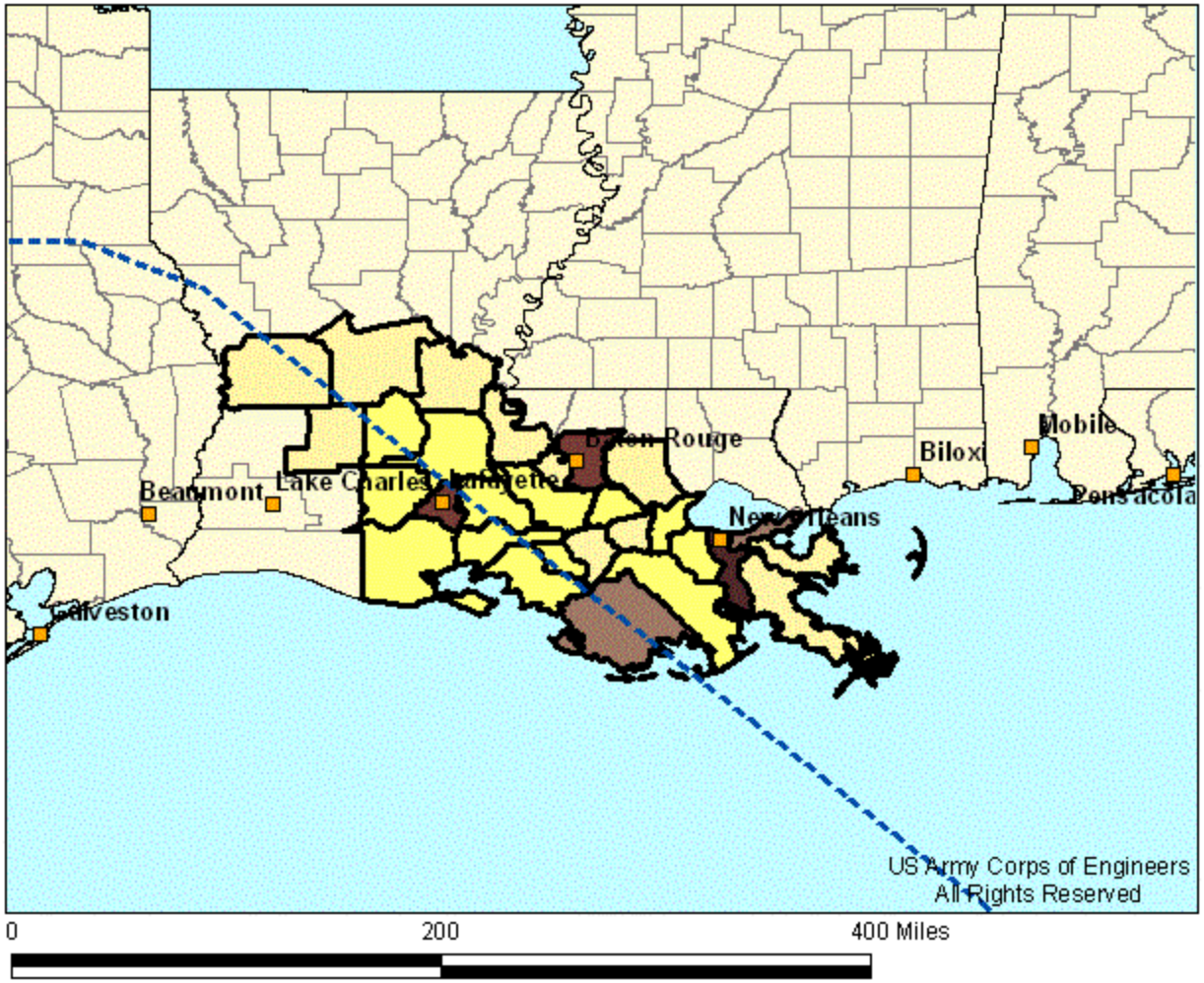
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Population Model

Landfall Expected In About 31 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Louisiana - 1,864,000

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (0800 EDT 08/31/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Population Model	
Generated By: Siemsen, LRL 0815 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	Page 10 of 13

US Army Corps of Engineers

Hurricane Gustav Population Model

Landfall Expected In About 31 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Louisiana		Acadia	39,000
		Allen	12,000
		Ascension	100,000
		Assumption	23,000
		Avoyelles	< 1,000
		East Baton Rouge	219,000
		Evangeline	34,000
		Iberia	76,000
		Iberville	33,000
		Jefferson	385,000
		Lafayette	205,000
		Lafourche	93,000
		Livingston	6,000
		Orleans	116,000
		Plaquemines	22,000
		Pointe Coupee	7,000
		Rapides	5,000
		St Bernard	< 1,000
		St Charles	52,000
		St James	22,000
		St John the Baptist	47,000
		St Landry	90,000
		St Martin	52,000
		St Mary	52,000
		Terrebonne	109,000
		Vermilion	41,000
		Vernon	2,000
		West Baton Rouge	22,000
Louisiana	1,864,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Gustav Population Model

Generated By:
Siemsen, LRL 0815 EDT 08/31/2008

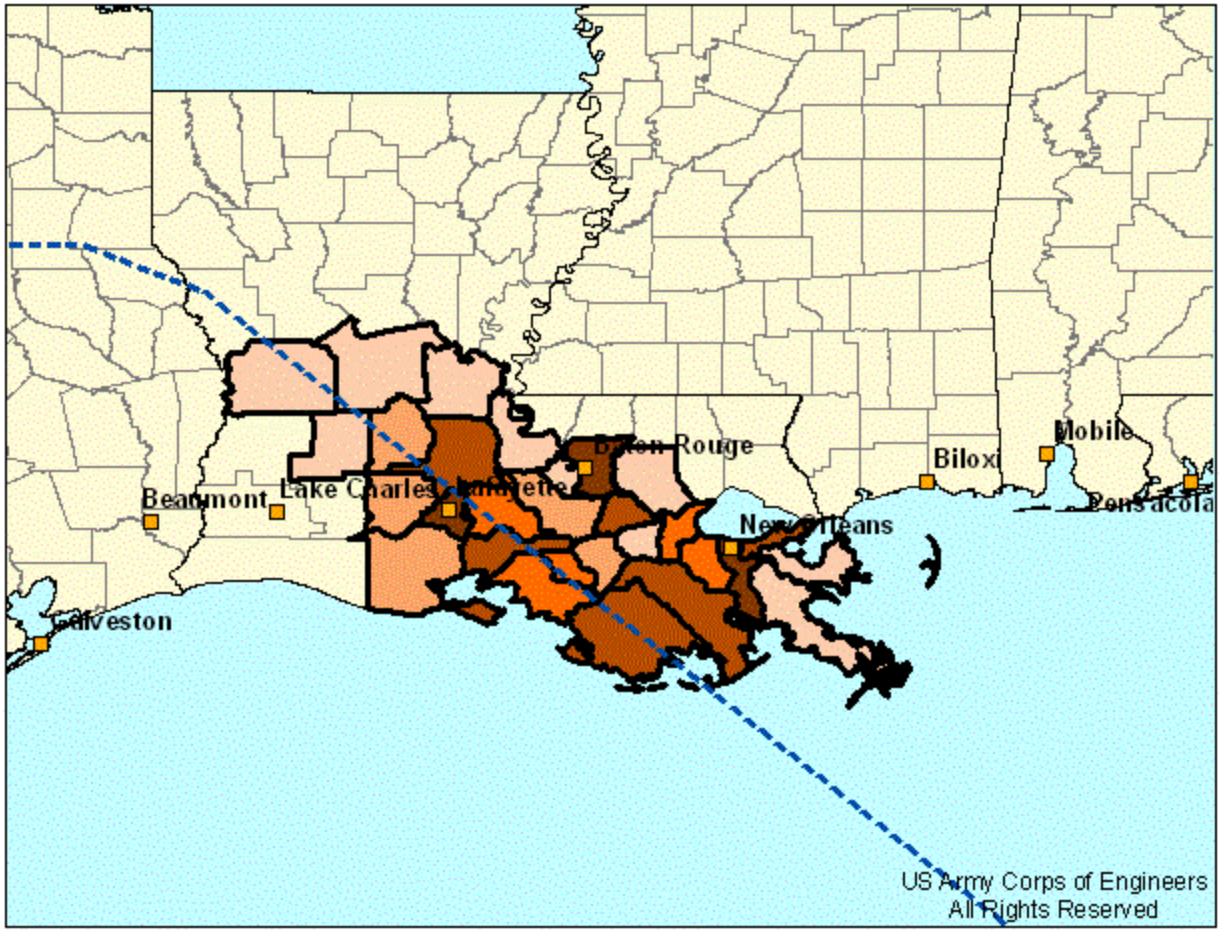
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Gustav Households Model

Landfall Expected In About **31** Hours

US Army Corps of Engineers

For Planning Purposes Only!



0 200 400 Miles

Post Landfall Households Model Results

Louisiana - 699,000

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Lafayette, LA.

Forecast Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 4 storm making landfall south of Lafayette, LA. These projections are based on information from the NHC (0800 EDT 08/31/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

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Hurricane Gustav Households Model	
Generated By: Siemsen, LRL 0815 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	Page 12 of 13

US Army Corps of Engineers

Hurricane Gustav Households Model

Landfall Expected In About 31 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Louisiana		Acadia	14,000
		Allen	4,000
		Ascension	35,000
		Assumption	9,000
		Avoyelles	< 1,000
		East Baton Rouge	89,000
		Evangeline	13,000
		Iberia	27,000
		Iberville	11,000
		Jefferson	148,000
		Lafayette	78,000
		Lafourche	34,000
		Livingston	3,000
		Orleans	47,000
		Plaquemines	8,000
		Pointe Coupee	3,000
		Rapides	2,000
		St Bernard	< 1,000
		St Charles	18,000
		St James	8,000
		St John the Baptist	16,000
		St Landry	33,000
		St Martin	19,000
		St Mary	19,000
		Terrebonne	38,000
		Vermilion	15,000
		Vernon	< 1,000
		West Baton Rouge	8,000
Louisiana	699,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

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Hurricane Gustav Households Model

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